

**PATENT APPLICATION**  
**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of	Docket No: Q78451
Takeshi ISHIKAWA	Group Art Unit: 1775
Appln. No.: 10/714,630	Examiner: Archene A. TURNER
Confirmation No.: 3245	Patent No.: 7,166,155
Filed: November 18, 2003	Issue Date: January 23, 2007
For: HARD FILM AND HARD FILM-COATED TOOL	

**REQUEST FOR CERTIFICATE OF CORRECTION**  
**PURSUANT TO 37 C.F.R. § 1.322**

**ATTN: Certificate of Correction Branch**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to the provisions of 37 C.F.R. § 1.322, please enter the attached Certificate of Correction.

This request for Certificate of Correction is filed pursuant to 37 C.F.R. § 1.322.

The mistake was made by the Patent Office as clearly disclosed on the attached documents.

Specifically, attached are copies of the following:

1. Executed Assignment,
2. Official Filing Receipt, and
3. Front Page of Published application.

**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

PATENT NO: 7,166,155  
DATED: January 23, 2007  
INVENTOR(S): Takeshi ISHIKAWA

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Please correct the Assignee's name as it appears on the patent.

Please delete "(73) Hitachi Tools Engineering, Ltd. Tokyo (JP)" and insert --(73) Hitachi Tool Engineering, Ltd. Tokyo (JP)--

MAILING ADDRESS OF SENDER:  
**SUGHRUE MION, PLLC**

WASHINGTON OFFICE

**23373**

CUSTOMER NUMBER

PATENT NO. 7,166,155

No. of additional copies

0

PURSUANT TO 37 C.F.R. § 1.322  
U.S. Application No.: 10/714,630

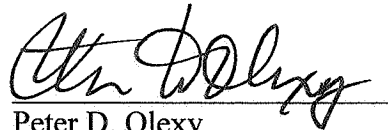
Attorney Docket No.: Q78451

As can be seen, the Assignee is clearly set forth as Hitachi Tool Engineering, Ltd., not Hitachi Tools Engineering, Ltd.

Since the error noted is believed to be the fault of the Patent and Trademark Office, we are not enclosing the \$100.00 Certificate of Correction fee. If it is found to be to the contrary, please charge our Deposit Account No. 19-4880.

In view of the foregoing, issuance of the Certificate of Correction is respectfully requested.

Respectfully submitted,



Peter D. Olexy  
Registration No. 24,513

SUGHRUE MION, PLLC  
Telephone: (202) 293-7060  
Facsimile: (202) 293-7860

WASHINGTON OFFICE

**23373**

CUSTOMER NUMBER

Date: August 22, 2007



US 20040137281A1

(19) United States

(12) Patent Application Publication  
Ishikawa

(10) Pub. No.: US 2004/0137281 A1

(43) Pub. Date: Jul. 15, 2004

(54) HARD FILM AND HARD FILM-COATED TOOL

Oct. 21, 2003 (JP) ..... 2002-360269

(75) Inventor: Takeshi Ishikawa, Chiba-ken (JP)

## Publication Classification

Correspondence Address:  
SUGHRUE MION, PLLC  
2100 PENNSYLVANIA AVENUE, N.W.  
SUITE 800  
WASHINGTON, DC 20037 (US)(51) Int. Cl.<sup>7</sup> ..... H05H 1/48; B32B 9/00

(52) U.S. Cl. .... 428/702; 427/580

## (57) ABSTRACT

(73) Assignee: HITACHI TOOL ENGINEERING, LTD.

(21) Appl. No.: 10/714,630

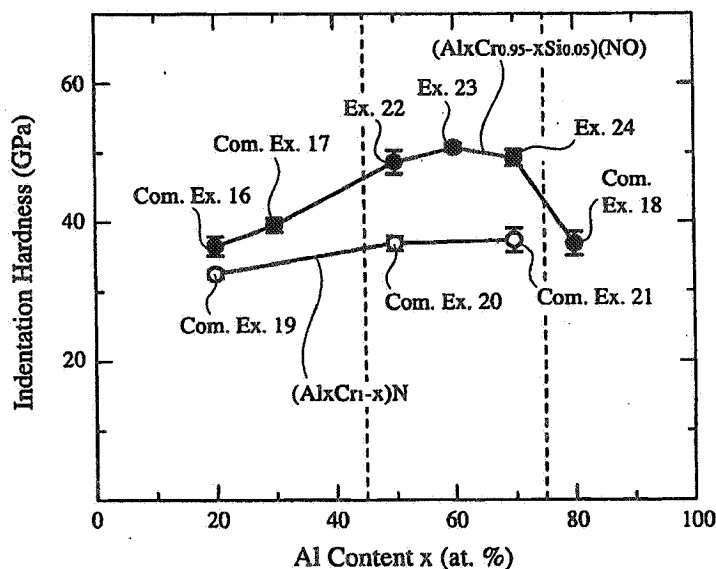
(22) Filed: Nov. 18, 2003

(30) Foreign Application Priority Data

Nov. 19, 2002 (JP) ..... 2002-334434

Nov. 25, 2002 (JP) ..... 2002-340796

A hard film formed by an arc-discharge ion-plating method, having a composition comprising metal components represented by  $Al_xCr_{1-x-y}Si_y$ , wherein  $x$  and  $y$  are respectively atomic ratios meeting  $0.45 \leq x \leq 0.75$ ,  $0 \leq y \leq 0.35$ , and  $0.5 \leq x+y < 1$ , and non-metal components represented by  $N_{1-\alpha-\beta-\gamma}B_\alpha C_\beta O_\gamma$ , wherein  $\alpha$ ,  $\beta$  and  $\gamma$  are respectively atomic ratios meeting  $0 \leq \alpha \leq 0.15$ ,  $0 \leq \beta \leq 0.35$ , and  $0.003 \leq \gamma \leq 0.25$ , the hard film having an NaCl-type crystal structure, with a half width of  $2\theta$  at an X-ray diffraction peak corresponding to a (111) face or a (200) face being  $0.5-2.0^\circ$ , and the hard film containing oxygen more in grain boundaries than in crystal grains.



## Assignment

Whereas, I/We, Takeshi ISHIKAWA of Chiba-ken, Japan  
hereinafter called assignor(s), have invented certain improvements in  
HARD FILM AND HARD FILM-COATED TOOL  
and executed an application for Letters Patent of the United States of America therefor on  
January 15, 2004; and

Whereas, Hitachi Tool Engineering, Ltd.  
4-1-13 Toyo  
Koto-ku, Tokyo, Japan

**FILED**

MAR 26 2004

(assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim priority under 35 U.S.C. §119, and I/we request the Director – U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

I/We hereby authorize and request our attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3213 to insert here in parentheses (Application number \_\_\_\_\_ and Confirmation number \_\_\_\_\_, filed \_\_\_\_\_) the filing date and application number of said application when known.

Date: Jan. 15, 2004 *Takeshi Ishikawa*

\_\_\_\_\_  
s/ Takeshi ISHIKAWA

Date: \_\_\_\_\_

\_\_\_\_\_  
s/

Date: \_\_\_\_\_

\_\_\_\_\_  
s/

Date: \_\_\_\_\_

\_\_\_\_\_  
s/

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
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 www.uspto.gov

APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/714,630	11/18/2003	1775	1512	Q78451	13	23	6

CONFIRMATION NO. 3245

CORRECTED FILING RECEIPT



\*OC000000021206478\*

23373  
 SUGHRUE MION, PLLC  
 2100 PENNSYLVANIA AVENUE, N.W.  
 SUITE 800  
 WASHINGTON, DC 20037

Date Mailed: 11/13/2006

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

Takeshi Ishikawa, Chiba-ken, JAPAN;

## Assignment For Published Patent Application

HITACHI TOOL ENGINEERING, LTD.

Power of Attorney: The patent practitioners associated with Customer Number 23373.

Domestic Priority data as claimed by applicant

## Foreign Applications

JAPAN 2002-334434 11/19/2002  
 JAPAN 2002-340796 11/25/2002  
 JAPAN 2003-360269 10/21/2003

If Required, Foreign Filing License Granted: 02/26/2004

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US10/714,630**

Projected Publication Date: Not Applicable

Non-Publication Request: No